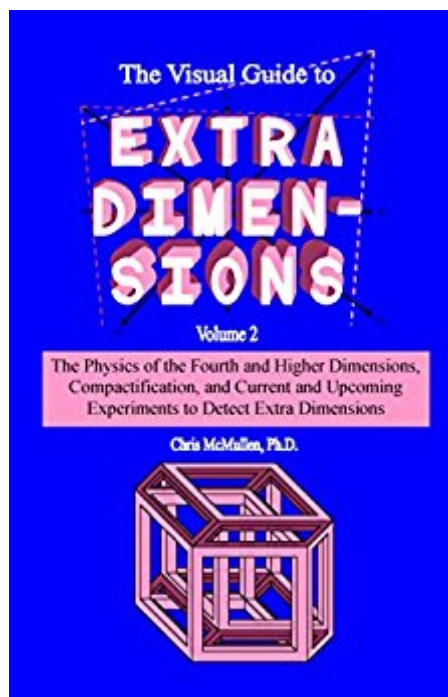


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The Visual Guide To Extra Dimensions: The Physics Of The Fourth Dimension, Compactification, And Current And Upcoming Experiments



Synopsis

AUTHOR: Chris McMullen earned his Ph.D. in particle physics from Oklahoma State University. Dr. McMullen currently teaches physics at Northwestern State University of Louisiana. His background on the geometry and physics of a possible fourth dimension of space includes a half-dozen research papers on the prospects of discovering large extra dimensions at the Large Hadron Collider.

DESCRIPTION: While Volume 1 covered the geometry of extra dimensions in detail, Volume 2 focuses on the physics of extra string-inspired dimensions. Consider the problem and solution of expressing the cross product in higher dimensions. See the effect that the extra flux of field lines has on Gauss's law in higher dimensions. Explore how extra dimensions may be hidden via compactification. Discover the recent motivation for the case of extra dimensions that are much larger than originally predicted by string theory. Read about current and upcoming experiments with the potential to detect the presence of large extra dimensions in our universe. Learn the fundamentals of special and general relativity, quantum mechanics, and string theory, and how these relate to extra dimensions... All on this visual introduction to the fourth and higher dimensions. This guide is conceptually and visually detailed, intended for mathematically-minded readers who may have not yet been exposed to calculus.

PUZZLES: Several puzzles are included to challenge the reader to contemplate the fourth dimension. Answers are included at the back of the book.

Book Information

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Customer Reviews

These two volumes of "The Visual Guide To Extra Dimensions" are excellent in the field of extra dimension. Dr Chris McMullen gives a detailed mathematical as well as graphical explanation in discussion of fourth spatial dimension. The two volumes, as mentioned also in the other comment, keep distance from common spiritual discussions and remain fully on scientific grounds. Should fourth dimension gain a serious role in science in future, these two volumes should be considered as a reference book.

I ordered this for my son who just "graduated" from the first grade and is passionate about all things 4D as well as the Platonic and Archimedean solids...this is what he begged for as a reward for moving on to the 2nd grade :-) I have enjoyed reading it to him...it is by no means a children's book! It is written clearly and the illustrations are AMAZING! This has replaced his old favorite on his bookshelf...Daud Sutton's Platonic and Archimedean Solids...at least for the time being. Here's what the 7 year old has to say..."This book on the extra dimensions is the best one ever! I love the higher dimensions. The pictures in this book are cool and really help me see how the 4D works! Thanks for writing such a great book!" I have to add that the illustrations in this 2 volume set alone are worth the price of the books!!!

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